

## COLOR CODED HOME VISITOR GREETING LAMP SYSTEM

BY

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## 5 CROSS REFERENCES RELATED TO THIS APPLICATION

The applicant claims the benefits and priorities of the United States provisional application numbers 60/454/157 filed on March 12, 2003; 60/455,540 filed on March 18, 2003; and 60/454,156 filed on March 12, 2003.

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## BACKGROUND OF INVENTION

The present invention relates to a multi-purpose lamp. More particularly, the present invention relates to a color coded home visitor greeting lamp system enabling a home visitor to make a quick and convenient consensus with the inviting home resident.

Finding a house is never an easy job to first time home visitors. Maps do not reflect road slopes that confuse those finding a house while driving a vehicle, and street signs are hardly visible under trees. Especially, for those visiting at night, street name signs are never located close to street lights so making a lap or two around the new area sitting behind a wheel would be minimally required for the first time visitors.

25 What is in strong demand is a device that allows a visitor to easily spot and locate the inviting house.

Installing light bulbs near the house to brighten the home

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number hardly help a visitor because even the experienced visitor sitting behind the wheel is not usually expected to simultaneously perform the driving and frequently turning the head to spot the home number that stands many  
5 times on an unexpected location.

Another demand is an application of a color coding or combination bulbs to differentiate and identify the house or residence to find, for example, by allowing each house to reserve its own color combinations, color codes or  
10 signal symbols.

#### SUMMARY OF THE INVENTION

The present invention is contrived to overcome conventional disadvantages. Accordingly, it is an object  
15 of the present invention is to provide an improved home visitor greeting lamp system enabling a home visitor to make a quick and convenient consensus with the inviting home resident.

Another object is to provide a house an additional  
20 home identity to supplement the hard-to-find street number. A further object is to set a standard light-blinking combination system for residential neighbors to share.

To achieve these and other objects, the color coded home visitor greeting lamp system comprises a circuit  
25 board having an electric port with the circuit board connected to a controller. A light bulb having a bulb base is detachably mounted in the port and blinkable under

control of the controller. A flashing member is removably provided between the bulb base and the port and a substantially transparent covering is detachably mounted over the board to protect the light bulb and the circuit board so that the covering has hook rails and slide panels so that the slide panels are detachably slid in the hook rails.

In a preferred version, the home visitor greeting lamp system comprises a plurality of electric ports so each bulb base is detachably mounted in a corresponding one of the ports. Here, the colored light bulbs are blinkable under control of the controller and at least two different colors are incorporated in the light bulbs.

For a better performance, the substantially transparent covering may be detachably mounted over the board to protect the light bulb and the circuit board, and the flashing member may be incorporated in the circuit board to control bulb blinking sequences and intervals.

The slide panels may be colored glasses with the covering two-tone colored. It is also preferred that the flashing member is a bulb flasher and the light bulb is colored. The controller is an in-house controller installed indoors. A decoration cap detachably mounted on top of the covering. Selectively, the colored light bulbs may be set to alternately blink. The greeting lamp system is formed in a portable format.

The advantages of the present invention are numerous.

First, the color coded combination mechanism of blinking and flashing effectively guides a visitor to easily find the hosting house with a warm welcome message of the

5 inviting host, thereby enhancing user satisfaction while maximizing product reliability. Secondly, the in-house light control system allows a host to control the combination of the blinking and flashing and to communicate with the visitor sitting behind the wheel to

10 the last minute so as to provide a visual confirmation of the house location, thereby improving product applicability and usability. Thirdly, the provision of the decoration cap together with the glass covering of the lamp system enables its user to expand its application

15 from outdoor lighting and guiding to outdoor decoration and from practical use to esthetic adaptation, thereby aesthetically culminating decorative expression while transferring a warm welcome message to the visitor.

Although the present invention is briefly summarized,

20 the fuller understanding of the invention can be obtained by the following drawings, detailed description and appended claims.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

25 The above objects and advantages will be more apparent by describing the present invention with

reference to the accompanying reference drawings, in which:

FIG. 1 is a view showing a color coded home visitor greeting lamp according to the present invention;

5 FIG. 2 is a partially exploded view showing construction of the present invention;

FIG. 3 is a schematic plan view showing the bulb and panel alignment of the present invention; and

FIG. 4 is a flowchart showing operation mechanism of  
10 the present invention.

#### **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS**

FIG. 1 shows a color coded home visitor greeting lamp system 10 where a post 12 stands supporting a lamp body 14  
15 with a decoration cap mounted 16 on top of the lamp body 14. The earthed post 12 also serves to electrically connect the lamp body 14 to an in-house controller 18.

FIG. 2 shows the electric connection mechanism of the lamp body 14 to the controller 18, and FIG. 3 shows the  
20 lamp body 14 viewed from atop without the decoration cap 16. As shown therein, a circuit board 20 having one or more electric ports are installed inside the lamp body 14. The circuit board 20 is electrically connected to the controller 18 through the post 12. In an embodiment, the  
25 lamp body 20 may be formed in a portable format to improve usability. For example, the greeting lamp system 10 having

the lamp body 14 in a portable format may be taken out from indoor storage and installed outdoors when a guest is scheduled to visit.

In a preferred mode, a plurality of light bulbs 22, 24 each having a bulb base 26 is detachably provided on the circuit board 20. Specifically, each bulb base 24 is detachably mounted in a corresponding port 28. In this construction, the light bulbs 22, 24 are formed blinkable under control of the controller 18 installed indoors.

For a better performance, a flashing member 30 is removably provided between each bulb base 26 and the corresponding port 28. The flashing member 30 may be formed of one selected from a bulb flasher and other types of flashing devices.

In order to effectively protect the bulbs 22, 24 and the circuit board 20 the lamp body 14 includes a substantially transparent covering 32 detachably mounted over the board 20 to protect the light bulbs 22, 24 and the circuit board 20. Here, the covering 32 is preferably formed of a plurality of panels 34 supported by hook rails 36 so that the slide panels 34 are detachably slid in the hook rails 36.

Preferably, each bulb 22, 24 is selectively colored and in a better version at least two different colors are incorporated in the light bulbs 22, 24. The flashing member 30 may be also incorporated in the circuit board 20

to control bulb blinking sequences and intervals in cooperation with the controller 18. A switch S may also be selectively provided between the lamp body 14 and the controller 18 for a safety measure.

5       The slide panels 34 may be either colored glasses or acrylic plates. To improve functionality of the greeting lamp system 10 the covering 32 may be two-tone colored. That is, the slide panels 34 may adopt two or more of the selected colors. The decoration cap 16 is detachably  
10 mounted on top of the covering 32 to fully cover the slide panels 34 and the rails 36 for aesthetic purposes as well as utility purposes. The colored light bulbs 22, 24 are set to alternately blink under control of the controller 18 for the best performance.

15       FIG. 4 is a flowchart showing how to control the controller 18 in a variety of control modes. As shown therein, when the controller 18 is not manually controlled a preset lighting program automatically starts so that the bulbs 22, 24 perform a preset combination of the bulb  
20 blinking and/or flashing in steps S110-S110. For example, three bulbs are linearly aligned on the circuit board 20, the centered bulb 22 flashes whereas the other front and rear bulbs blink according to the present program.

      When the controller 18 is manually controlled to  
25 allow the blinking to begin then the user selects one of the blinking programs (S130). Meanwhile, if the blinking

is deselected but flashing is selected the selected  
 flashing is performed **S150**). If neither of the blinking  
 and the flashing is selected the controller **18** is set to  
 start stationary light mode (**S170**) to maintain bulb  
 5 lighting with neither blinking nor flashing. Also, the  
 blinking function selected to perform one of the blinking  
 programs (**S120-S130**) may be immediately followed by the  
 flashing function to simultaneously perform the flashing  
 according to one of the flashing programs (**S140-S150**) as  
 10 long as electric power remains turned on.

As discussed above, an advantage of the present  
 invention is that the color coded combination mechanism of  
 blinking and flashing effectively guides a visitor to  
 easily find the hosting house with a warm welcome message  
 15 of the inviting host, thereby enhancing user satisfaction  
 while maximizing product reliability. Further, the in-  
 house light control system **10** allows a host to control the  
 combination of the blinking and flashing and to  
 communicate with the visitor sitting behind the wheel to  
 20 the last minute so as to provide a visual confirmation of  
 the house location, thereby improving product  
 applicability and usability. In addition, the provision of  
 the decoration cap **16** together with the glass covering **32**  
 of the lamp system **10** enables its user to expand its  
 25 application from outdoor lighting and guiding to outdoor  
 decoration and from practical use to esthetic adaptation,



thereby aesthetically culminating decorative expression  
while transferring a warm welcome message to the visitor.

While the present invention has been particularly  
shown and described with reference to the preferred  
5 embodiment thereof, it will be understood by those skilled  
in the art that various changes in form and details may be  
effected therein without departing from the spirit and  
scope of the invention as defined by the appended claims.